


PUBLIC INTEREST ENERGY RESEARCH
"Research Powers the Future"

Geothermal Heat Pumps
International Ground Source Heat Pump Association

# Pre-Proposal Workshop

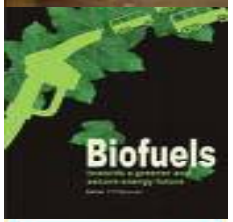



# Renewable Energy Secure Communities (RESCO)

PIER Renewables Program

***Hearing Room A***
***California Energy Commission***
***December 22 &23, 2008***
***10:am***



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# Agenda





| | |
|---|---|
| Introduction | **Valentino Tiangco** |
| Welcome Remarks | **Martha Krebs** |
| RESCO Overview | **Gerald Braun** |

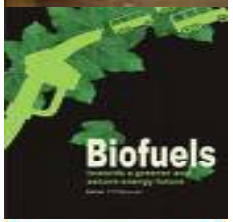
- Purpose, Goals, Benefits

RESCO Solicitation Details **Valentino Tiangco**

- Funding Availability
- Eligible Projects
- Eligible Applicants
- RESCO Proposal Guidelines
- RESCO Proposal Requirements
- Prevailing Wage
- CEQA
- Selection Process & Award Process
- Confidential Information
- Grounds for Rejection, etc

Questions and Answers **All**

















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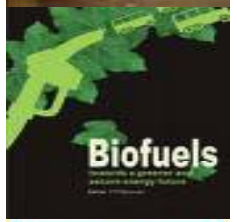
# Introduction






**By**

## Valentino Tiangco

## Lead – RESCO RD&D Grant Solicitation









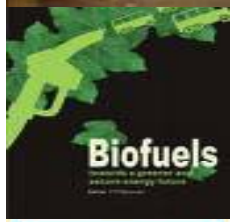













# Welcome Remarks

By

## Martha Krebs

### PIER Director





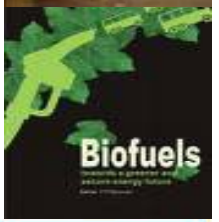


# RESCO OVERVIEW

**By**








## Gerald Braun

Team Lead -PIER Renewables Program













# California Renewable Energy (RE) Overview

- CA is a launch pad of modern global RE industries
- CA is RE "resource rich":
  - Best direct and total solar radiation
  - Best geothermal
  - Major wind hot spots
  - Abundant biomass resources from agriculture, forestry and urban waste streams
- CA is RE R&D rich:
  - Source of one third of all clean energy venture capital
  - Legacy of ratepayer funded RE RD&D
- RE incentives and mandates:
  - $1/W buy-down for solar PV averaged over 3 GW
  - 33% RPS for 2020
  - Bioenergy targets







# RE Technology Menu – Applications

| √ = primary application | Deployment Venues | | |
|---|---|---|---|
| √ = secondary application | Utility-Scale Renewables | RE Secure Communities | RE Secure Buildings |
| **Technology/ Resource** | Utility-scale power plants and bio-refineries | Smaller energy plants exploiting high-quality local resources | Modular systems for building and industrial power, heat, cooling and lighting |
| **Wind Power Plants** | √ | √ | |
| **Geothermal Power** | √ | √ | |
| **Hi Temp Solar Thermal** | √ | √ | √ |
| **Biomass Power** | √ | √ | √ |
| **Ocean/Wave** | √ | √ | |
| **Solar PV** | √ | √ | √ |
| **DG Wind** | | √ | √ |
| **Solar Heat & Cooling** | | √ | √ |
| **Direct Geothermal** | | √ | √ |
| **Geothermal Heat Pumps** | | √ | √ |
| **Biofuels** | √ | √ | √ |

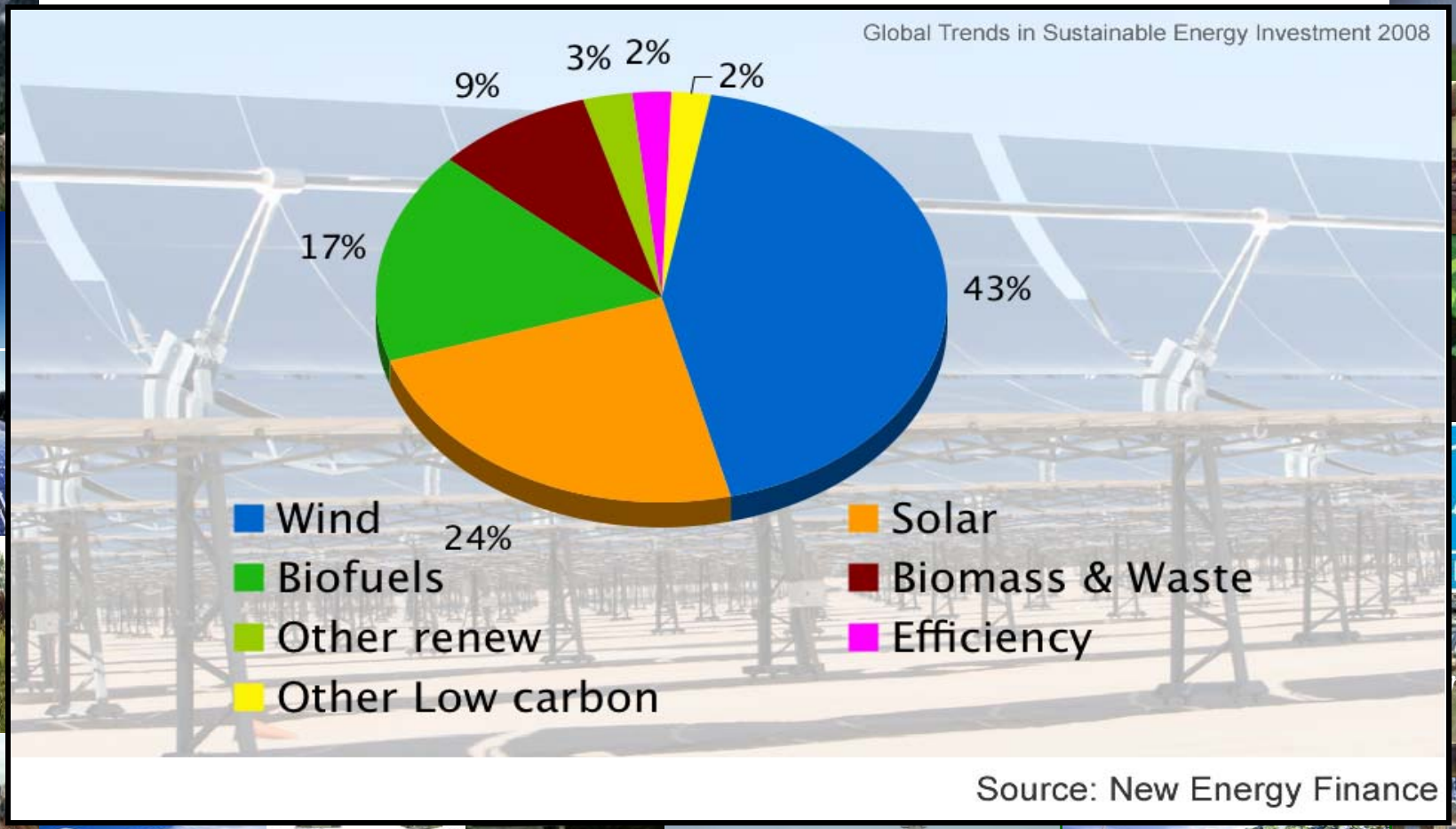
# RE Technology Menu – Commercial Readiness

| C = Commercial | Deployment Venues | | |
|---|---|---|---|
| E = Emerging | Utility-Scale Renewables | RE Secure Communities | RE Secure Buildings |
| **Technology/ Resource** | Utility-scale power plants and bio-refineries | Smaller energy plants exploiting high-quality local resources | Modular systems for building and industrial power, heat, cooling and lighting |
| **Wind Power Plants** | C | C | |
| **Geothermal Power** | C | C | |
| **Hi Temp Solar Thermal** | C/E | C/E | E |
| **Biomass Power/CHP** | C | C | C |
| **Ocean/Wave** | E | E | |
| **Solar PV** | E | C/E | C |
| **DG Wind** | | C/E | C/E |
| **Solar Heat & Cooling** | | C/E | C/E |
| **Direct Geothermal** | | C | C |
| **Geothermal Heat Pumps** | | C | C |
| **Cellulosic Biofuels** | E | E | E |

# RE Technology Menu – Industry Capability

| C = Capable | Deployment Venues | | |
|---|---|---|---|
| D = Developing | Utility-Scale Renewables | RE Secure Communities | RE Secure Buildings |
| **Technology/ Resource** | Utility-scale power plants and bio-refineries | Smaller energy plants exploiting high-quality local resources | Modular systems for building and industrial power, heat, cooling and lighting |
| **Wind Power Plants** | C | D | |
| **Geothermal Power** | C | D | |
| **Hi Temp Solar Thermal** | C/D | D | D |
| **Biomass Power/CHP** | D | C/D | D |
| **Ocean/Wave** | D | D | |
| **Solar PV** | D | C | C |
| **DG Wind** | | D | D |
| **Solar Heat & Cooling** | | D | D |
| **Direct Geothermal** | | D | D |
| **Geothermal Heat Pumps** | | D | D |
| **Cellulosic Biofuels** | D | D | D |

# Global Investment by Technology, 2007



# What is RESCO?

**Definition of Renewable Energy Secure Communities (RESCO or RESCOs):**

➢RESCOs are communities that secure their RE supply (electricity and fuel) through primary (up to 100%) reliance on indigenous RE resources

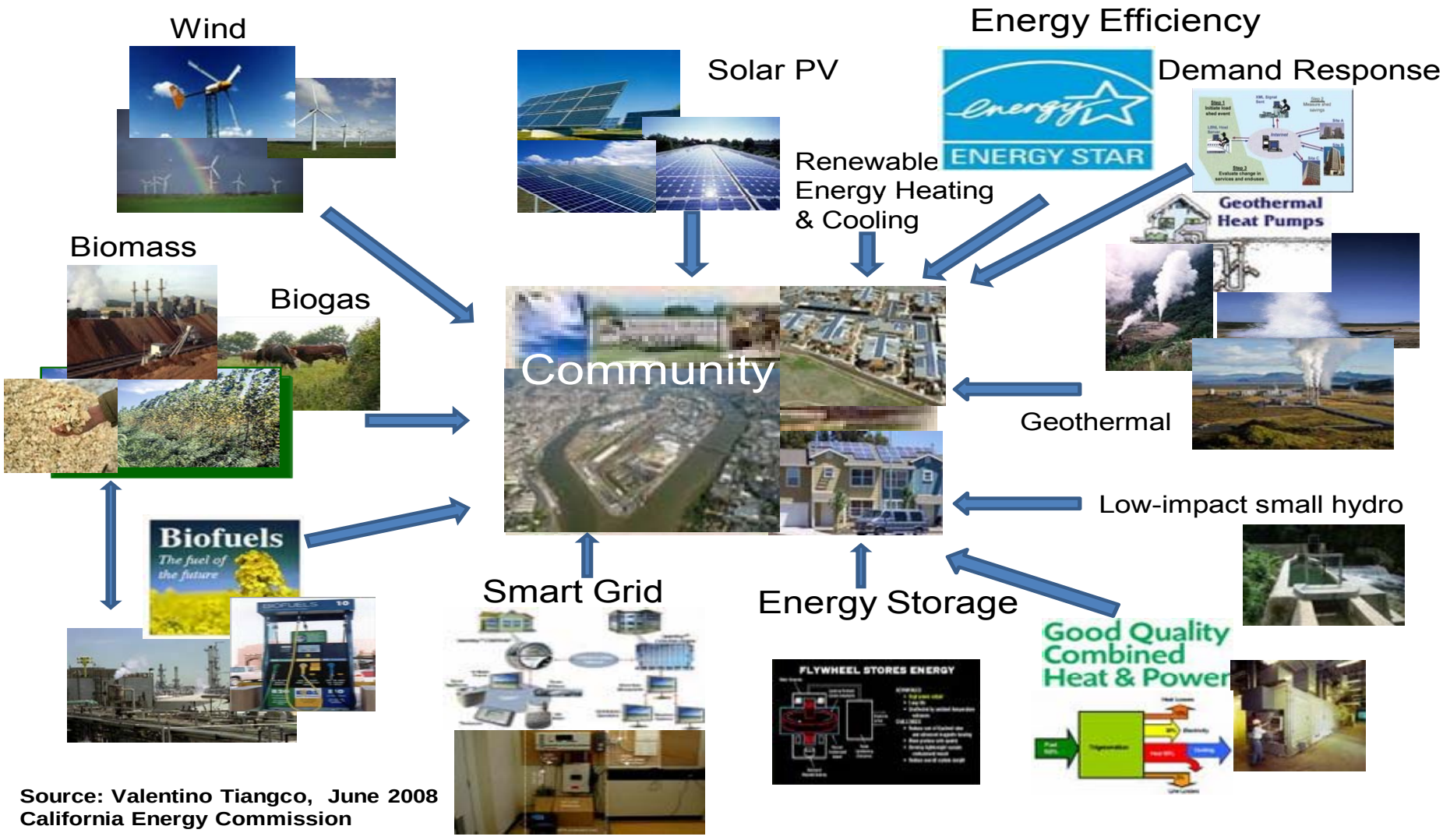
➢A vision that advances science and technology by developing, demonstrating and deploying mixed RE technologies in an integrated, sustainable, and optimum manner in communities, and ultimately integrated with:

- ✓**energy efficiency and demand response,**
- ✓**smart grid integration,**
- ✓**energy storage,**
- ✓**combined cooling, heating and power, and**
- ✓**co-production of value-added products such as biofuels**

➢An RD&D program being developed by the California Energy Commission in support of the vision

# RESCO Vision

## Building Blocks of Renewable-based Energy Secure Communities (RESCO)




Source: Valentino Tiangco, June 2008
California Energy Commission

# GOALS of RESCO

- Support California's energy policies (2007 IEPR, RPS, AB 32, CSI, Bioenergy Action Plan, etc.)

- Support the PIER Electricity and PIER Natural Gas Programs

- Provide RD&D support to communities committed to a clean energy future and accrue public benefits

- Support local government efforts to address climate and energy in their master plans

# GOALS of RESCO

•Make California's electricity and transportation fuels more diverse, safe, cleaner, and affordable by:

- bringing full menu of mature, viable, distributed RE technologies, products and services and accelerate its commercialization in conjunction with complementary advancements in:
  - -energy efficiency and demand response,
  - -smart grid technology,
  - -energy storage,
  - -combined cooling, heating and power, and
  - -co-production of value-added products such as bio-fuels

•Reduce congestion at transmission gateways

# GOALS of RESCO

- Stabilize energy costs for families and local businesses

- Create local jobs and keep energy purchase dollars and related tax revenues inside the community

- Protect the environment and tap economically exploitable local  energy resources

- Consolidated and streamlined permits

# Benefits of RESCO

- **Environmental Benefits**
  - improved air and water quality
  - maximized use of waste materials for energy production
  - reduced net greenhouse gas emissions
  - ecological integrity
  - Etc…
- **Economic Benefits**
  - reduced electricity costs or reduced or stabilized energy costs
  - cost of living in the community is optimized for consumer
  - support for local infrastructure investment
  - greater economic benefits to local communities, creates local jobs
  - Etc…
- **Social Benefits**
  - master planned community as an integrated system
  - smart growth land use planning and green building design and sustainable design approach for community
  - increased customer choice
  - cultural and historical vitality
  - strategic community partnerships drive business participation
  - Etc…














# RESCO Rationale

- Future rate of utility scale RE deployment is uncertain
- Policy support exists to explore other promising venues for RE deployment
- European precedent for successful “full menu” approach
- Major source of electric system load reduction (like energy efficiency)
- Synergies with energy efficiency programs off-set costs on both sides
- Engages the public and public resources effectively in support of public interest goals
- Provides state support for already-committed California communities and institutions

# Suggested RESCO RD&D Strategies

- Learn by doing…and from others' experience
  - Deploy proven energy conversion products and capabilities
  - Pilot innovative integration solutions and capabilities
- Fit infrastructure development to local RE resource and business base
- Balanced portfolio:
  - Local RE and efficiency measures
  - Local RE resources and purchased RE energy
  - Public and private investment
- Leverage state and national programs and technical assistance
- Lay groundwork for future RE capacity expansion

# RESCO Technical Integration Solutions

- Integrated solutions that:
  - Reduce delivered energy cost
  - Increase delivered energy value
  - Increase security of supply and/or public safety
- Solutions that enable integration, e.g:
  1. Integrated RE resources mix
  2. Integration of RE electricity resources with efficiency measures and demand response
  3. Integration of RE resources and energy storage
  4. Integrated Inter-sectoral applications (e.g. transportation and electricity)
  5. Integration of Biopower resources and combined cooling, heating and power (CCHP)
  6. Integration of Local RE resources and imported RE energy
  7. Integration of Renewable Energy Heating and Cooling with Energy Efficiency, Demand Response and On-Site Electricity Generation

# California RE Collaborative (CREC)

- Includes networks of government, industry, environmental groups, and educational institutions.
- Founded and funded by the Energy Commission.
- Technical staff executes collaborative research addressing program and stakeholder priorities.




- California Solar Collaborative is in the formation stage.
- Includes new technical integration research team.

# Purpose of this RESCO Solicitation

1) Identify and co-fund three or more integrated RE projects that enable effective use of multiple geographically convenient RE sources and address technical, economic, and environmental barriers to implementation of renewable energy secure communities (RESCO) in California, and

2) Identify and co-fund one project for each RESCO collateral category projects that complement the RESCO integration projects.







# RESCO

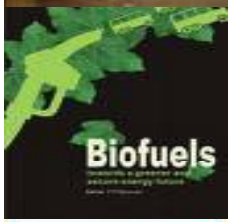
## RD&D GRANT SOLICITATION

## - DETAILS -










By

**Valentino Tiangco**

**Lead – RESCO RD&D Grant Solicitation**





# Available Funding

# $9,100,000

PIER Electricity ($5,850,000)

Natural Gas Programs ($3,250,000)

# Funding Request for Technical Integration Projects

## The maximum funding requests are:

- **Exploratory: $200,000**
- **Pilot: $1,000,000**
- **Implementation: $2,000,0000**

# Funding Request for Collateral Projects

The maximum funding requests are:

1) RE Integration, piloting and implementation of smart grid concepts: **$1,000,000** (PIER Natural Gas funding)

2) Dairy bio-gas or bio-power technology characterization, assessment and validation: **$1,000,000** (PIER Natural Gas funding)

3) Demonstration of low cost, low emission technologies for conversion of biogas; **$300,000** (PIER Electricity funding)

# Match Funding

This solicitation requires match funding

--except for Collateral Category # 2 (dairy biogas).

- For exploratory stage projects
  - **min match** = 25% of the total project cost (cash and in-kind).

- For pilot, implementation, and collateral projects
  - **min match** = 50% of the total project cost (cash and in-kind).

# Eligible Projects

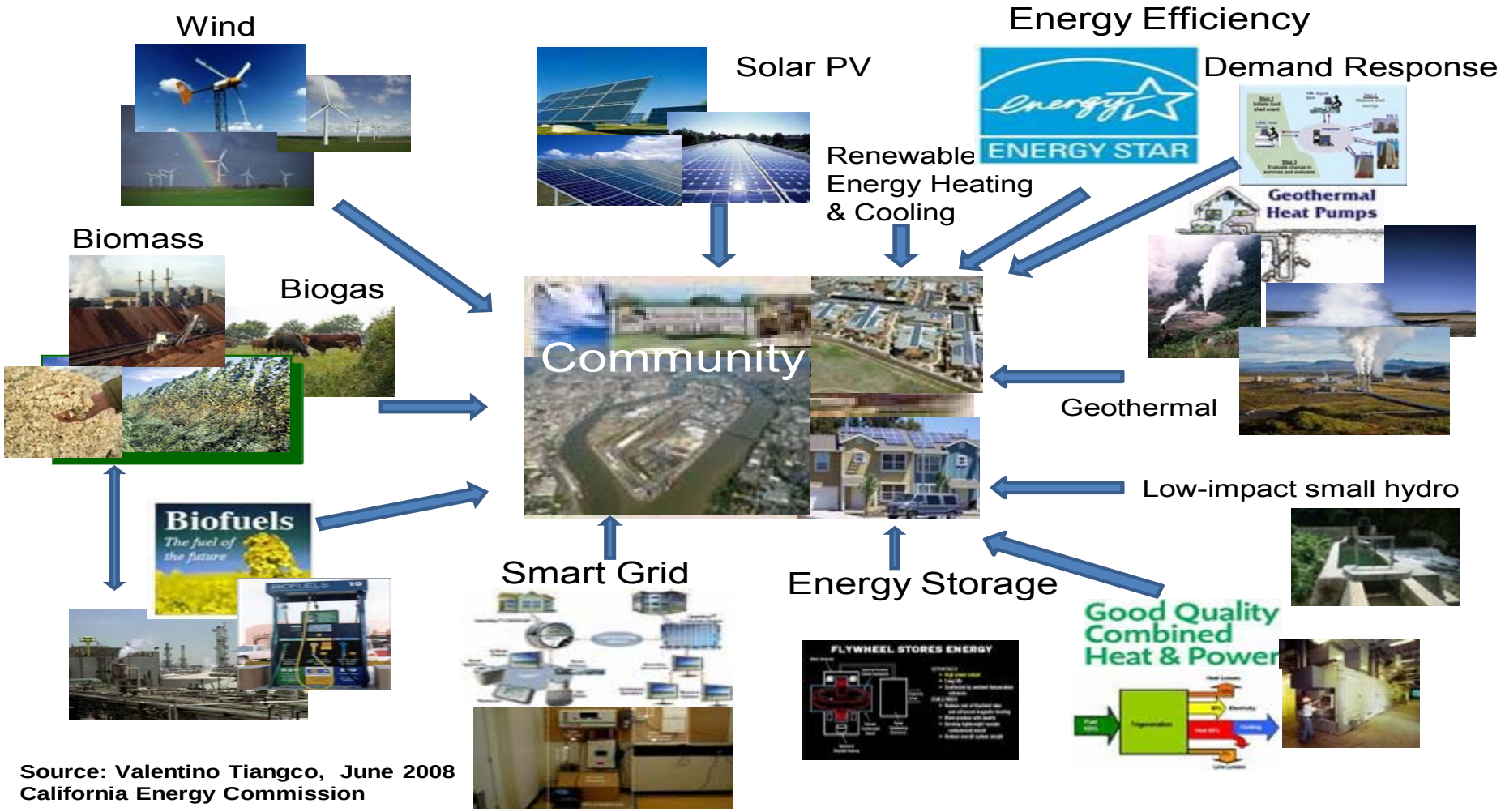
## Two Categories of Eligible projects:

1) RESCO Technical Integration Projects

2) RESCO Collateral Projects

# RESCO Building Blocks

## Building Blocks of Renewable-based Energy Secure Communities (RESCO)




Source: Valentino Tiangco, June 2008
California Energy Commission

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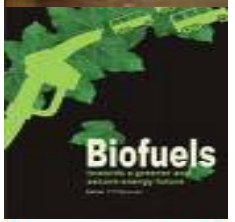
# RESCO Technical Integration Projects



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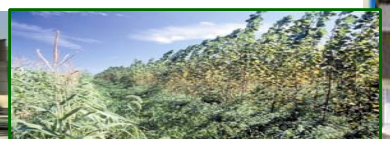



# Technical Integration Projects

Three Stages of Technical Integration Projects:

1. **Exploratory Stage**
2. **Pilot Stage**
3. **Implementation Stage**

# Technical Integration Projects

## 1. Exploratory Stage

- Must be offered by community organization and their teams

- Must consider the **full range of RE solutions** consistent with locally available RE resources

- Must exploit multiple RE resource/conversion technology combinations to achieve cost-optimum primary reliance on RE

- Plan for some or all of the non-supply integration solutions

- Show evidence of commitment and capacity to follow through results

# Technical Integration Projects

## 2. Pilot Stage

- Must be offered by community organizations to specific development plans
- Must involve hardware development and demonstration employing **three or more** mature and viable RE resource/conversion technologies
- Must address **two or more** of the eligible technical integration solutions categories described in Attachment A of the Application Manual.

# Technical Integration Projects

## 3. Implementation Stage

- Must be offered by community organizations already implementing specific and detailed RESCO development plans
- Must involve hardware development and demonstration employing **three or more** mature and viable RE resource/conversion technologies
- Must address **three or more** of the eligible technical integration solutions categories described in Attachment A of the Application Manual
- Must address energy system design, scale-up and operational and grid integration issues

# RESCO Technical Integration Projects

**Categories of Integration Solutions (See Attachment A of the Manual):**

1. Integrated RE resources mix
2. Integration of RE electricity resources with efficiency measures and demand response
3. Integration of RE resources and energy storage
4. Integrated Inter-sectoral applications (e.g. transportation and electricity)
5. Integration of Biopower resources and combined cooling, heating and power (CCHP)
6. Integration of Local RE resources and imported RE energy
7. Integration of Renewable Energy Heating and Cooling with Energy Efficiency, Demand Response and On-Site Electricity Generation




# RESCO Collateral Category Projects

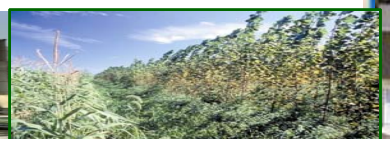
- Projects under this collateral category relates directly to the RESCO vision by developing solutions and direction useful to RESCOs

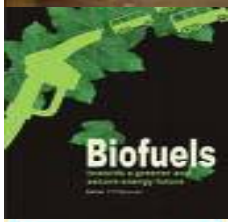








# RESCO Collateral Project # 1

1) **Integration and implementation of smart grid concepts in the RESCO context**.

See Attachment B1 of the Application Manual

- ✓ Objective: To develop, pilot or implement integration solutions applying smart grid integration of RE sources in a community

# RESCO Collateral Project # 2

## 2) Dairy bio-gas or bio-power technology characterization, assessment and validation

See Attachment B2 of the Application Manual

✓Objective: To quantify the technical, economic and environmental performance of California dairy power systems including manure and effluent handling, anaerobic digestion, biogas-to-electricity generation, and transportation fuels processes.

❑ At least five sites currently containing operational dairy power systems in California will be included in the study.

# RESCO Collateral Project # 3

**3) Demonstration of low cost, low emission technologies for conversion of biogas**

See Attachment B3 of the Application Manual

✓Objective: To demonstrate a low cost and low emission energy conversion technology using biogas such as landfill gas or biogas


# Attention:

For technical integration proposals and each individual collateral project proposal--

❖It is the Energy Commission's intention to fund the highest scoring proposals, to the extent of available funds.


# Attention:

Feasibility studies and bench-scale projects will not be funded under this solicitation.

Entities or individuals who wish to pursue funding for feasibility studies and bench scale projects should consider applying to the Commission's Energy Innovation Small Grant (EISG) Program.

Information on this program is available through the Energy Commission's website http://www.energy.ca.gov/contracts/index.html.







# Eligible Applicants



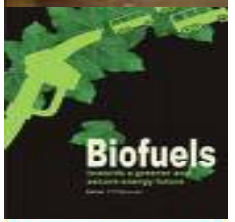
















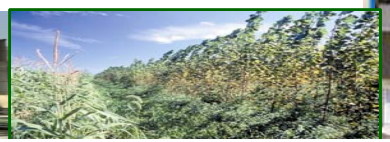


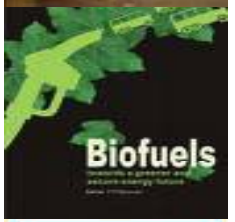











# Eligible Applicants for Technical Integration Projects

# Eligible Applicants

## A. For RESCO Technical Integration Projects:

Prime Applicants may represent the following:

1) California cities and counties targeting net-zero communities and buildings

2) Chartered California institutions of higher education aiming to shift a campus energy supply mix toward RE

3) California school districts aiming to shift district-wide on-campus energy supply toward RE

4) California public agencies engaged in shifting the energy supply mix for specific community-scale operations (e.g., prisons and/or water treatment and pumping operations) toward RE.

# Eligible Applicants

## A. RESCO Technical Integration Projects (Cont'n):

5) California utilities engaged in facilitating RE deployment in (or for) a particular community area they are currently serving,

e.g. RE deployment dedicated to supply specific, identifiable communities and sub-divisions.

6) California jurisdictions jointly or individually exploring or moving to implement community choice aggregation in order to achieve locally determined clean energy supply and climate mitigation targets.

# Eligible Applicants

## A. RESCO Technical Integration Projects (Cont'n):

7) California chartered industry or agriculture associations engaged in development and aggregation of RE supply by local industry members,

e.g. bio-methane collection and distribution grids organized by dairies and/or food processors that are integrated in energy systems that include other complementary RE sources.

8) California-based Native American governments exploring or implementing a RESCO vision.

9) Corporate entities or industry associations exploring or implementing a RESCO vision and empowered to represent the energy users in a proposed or already established business park or industrial zone.

# Eligible Applicants

**ATTENTION:**

**For RESCO Technical Integration Projects:**

- Applicant teams should have the community-based experience and technology, market, and socio-economic skills to create broadly acceptable and economically and technically sound solutions.

- In particular, the Energy Commission is interested in supporting inter-disciplinary and community empowered teams that can cut across internal community boundaries and RE technology borders to exploit synergies and solve problems.

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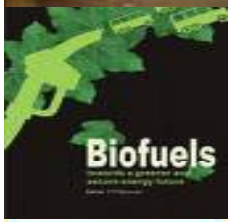
# Eligible Applicants for Collateral Category Projects



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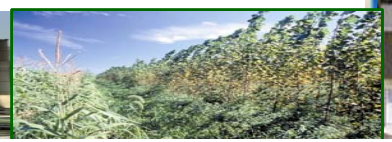


# Eligible Applicants

**For RESCO Collateral Projects:**

Prime Applicants for RESCO collateral projects that are either:

- Qualified Applicants with experience and skills to execute the specific scope of work or are offering to share the cost of a Collateral Project and sub-contract with technology developers, consultants, and other qualified organizations to execute the scope of work.

- Organizations eligible to serve as Prime Applicants for RESCO Technical Integration Projects are also eligible to serve as Prime Applicants for RESCO Collateral Projects.




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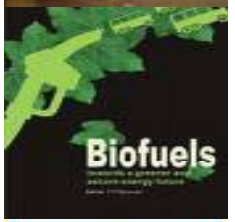
# Eligible Applicants for All RESCO Projects













# Eligible Applicants

**ATTENTION**

**For All RESCO Projects:**

California business entities as well as non-California business entities conducting intrastate business in California are required to register and be in good standing with the California Secretary of State

- ❑If not currently registered with the California Secretary of State, Applicants are encouraged to contact the Secretary of State's Office as soon as possible to avoid potential delays in beginning the proposed project if your application is successful.
- ❑For more information, contact the Secretary of State's Office via their website at www.sos.ca.gov.

# Eligible Applicants

**ATTENTION**

**For All RESCO Projects:**

- Prime Applicants may submit multiple proposals.
- Each proposal must be distinct & separate project
- Each proposal must be submitted separately adhering to all requirements contained in this RESCO solicitation.





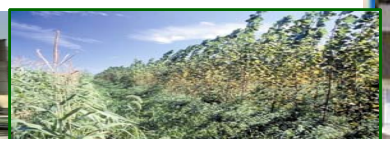


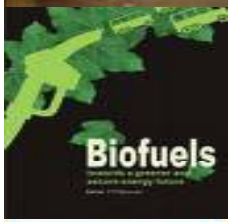











# Selection of Projects & Award Process

# Selection of Projects & Award Process

1. Scoring committee will score the projects using the scoring criteria described in Attachments C1 and C2.

2. The scoring committee may conduct optional interviews

3. A minimum score of 70 (out of 100) is required

4. Projects receiving a score of 70 or more will be ranked

5. Project(s) will be recommended for funding starting with the highest ranked project until all funds are exhausted.

# Selection of Projects & Award Process Cont'n.

6. The Energy Commission reserves the right to negotiate with the Applicant(s) to modify the project scope, the level of funding, or both.

7. If the Energy Commission is unable to successfully negotiate and execute a funding agreement with an Applicant, the Energy Commission, at its sole discretion, reserves the right to cancel the pending award and fund the next highest ranked eligible project proposal received under this solicitation.

8. A Notice of Proposed Awards will be released upon completion of the scoring process.

# Selection of Projects & Award Process Cont'n.

9. Grant Recipient(s) will be required to work with Energy Commission staff to finalize a potential agreement based closely on the application documents.

- ❑Information required in the project proposal should be complete, in the specified format, and will not require substantial revision in order to comply with this requirement.

- ❑Public agencies and non-profit organizations must provide an authorizing resolution approved by their governing authority.

- ❑Funding will be awarded only upon satisfactory completion of these documents.

# Selection of Projects & Award Process Cont'n.

10. Upon receiving the required documents, a Grant Agreement, which includes applicable Terms and Conditions*, will be written and sent to the Recipient(s) for:
    - ✓ review,
    - ✓ approval,and
    - ✓ signature.

11. The complete agreement will be taken to the Energy Commission Business Meeting for approval

12. Once all parties have approved the agreement ----it will be executed.
    - ❑Recipient(s) are approved to begin the project only after full execution of the Grant Agreement.

# Selection of Projects & Award Process

## ATTENTION:

- See **PIER Grant Terms and Conditions** at http://www.energy.ca.gov/contracts/index.html or see Exhibit 1of the solicitation package.

- Read carefully the PIER Grant Terms and Conditions, especially the royalty provisions section.

- Please note, however, the Energy Commission reserves the right to modify the terms and conditions prior to executing grant agreements.





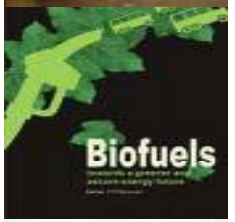






# Schedule of Proposal and Award Process

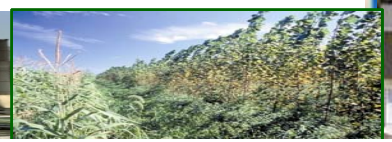











# Schedule of Proposal and Award Process

| | |
|---|---|
| **Release of Solicitation** | **December 8, 2008** |
| **Pre-Proposal Workshops** | **December 22, 2008 & December 23, 2008** |
| **Deadline to Submit Pre-Proposal Questions** | **December 29, 2008** |
| **Posting of Questions and Answers** | **January 9, 2009** |
| **Deadline to Submit Proposals** | **January 30, 2009 4:00 p.m. Pacific Standard Time** |
| **Post Notice of Awards** | **March- April 2009** |
| **Energy Commission Business Meeting for Approval of Awards** | **June 3, 2009** |





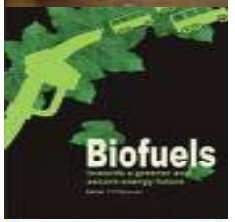






# Proposal Requirements

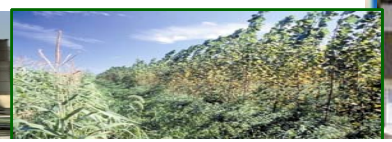











# Proposal Requirements:

## ATTENTION:

- **It is requested that proposals contain the following elements.**
- ***Failure to include these elements WILL result in your proposal receiving a lower overall score and MAY result in your proposal being rejected and not eligible for funding.***

### 1. Contact information –

contact person's name, title, entity legal name, physical address, telephone number, fax number and email address.

Authorized signature of the Prime Applicant must be included in the contact information page certifying that all information in the proposal is correct and complete to the best of his/her knowledge.

Public agencies and non-profit organizations must also provide an authorizing resolution approved by their governing authority.

### 2. A clear statement of RESCO category and funding level

# Proposal Requirements:

**3. One page summary of the project**

**4. Detailed narrative and discussion of how the proposed project addresses each of the scoring criteria.**

Address comprehensively the Scoring criteria include:

Technical Merits (30 points),
Technical Approach (25 points),
Technical Qualifications,
Management and Project Team (20 points), and
Market Connectedness (25 points).

See Attachment C1- Scoring Criteria for Technical Integration
See Attachment C2 – Scoring Criteria for Collateral Categories

# Proposal Requirements

**5. Work Statement with a task-by-task description of your project including a process flow diagram.**

- ❑ Use of the template given in Attachment E is mandatory.

**6. One page Gantt chart showing the duration and sequencing of tasks, starting with the date that funding is awarded.**

- ❑ **Assume a start date of August 1, 2009.**

# Proposal Requirements

7. Project budget information
   - ❑ This budget form is an Excel spreadsheet. It is posted on the Energy Commission website at http://www.energy.ca.gov/contracts/index.html as part of this solicitation package.
   - ❑ **Use of budget template in Attachment D is mandatory.**

8. Include short biographies for the following:
   - ➢ Principal Investigator or the Prime Applicant's project manager,
   - ➢ Key research partners (individuals in your organization or subcontractors)

Note : emphasize experience related to activities to be performed in the project.

# Proposal Requirements:

**9.** Indicate whether the project involves public works and whether the budget includes prevailing wages.

10. Any other significant factors to enhance the value of the proposal.

- ❑ include highlights of the previous work and innovative features related to the proposed project.

# Proposal Requirements:

**11. California-Based Entity (CBE) Preference Points Questionnaire (optional):**

- Applicants meeting the criteria of a California-Based Entity (CBE) may have preference points added to their final technical score, subject to certain restrictions.

- Please see Attachment F for more information.

- Eligible applicants must request and demonstrate eligibility by filling out and submitting as part of the proposal package the questionnaire contained in Attachment F.

- Otherwise eligible applicants who do NOT submit the Attachment F questionnaire shall NOT be eligible for the CBE Preference Points.



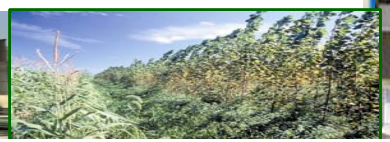


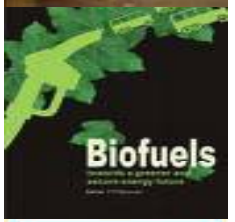








# Scoring Criteria

# Scoring Criteria

## ATTENTION:

- Applicants must address comprehensively the scoring criteria.
- Scoring will be based on the merits of the project proposals.
- Each criterion for all proposals will be scored on a basis of 0 to 10 points and then multiplied by the corresponding weighting factor.
- The resulting scores will be summed to provide the overall project score. A minimum score of 70 (out of 100) is required to be eligible for funding.
- There are different scoring criteria for RESCO technical integration and collateral category proposals.

# Scoring Criteria

**See Attachment C1 for Scoring Criteria for RESCO Technical Integration**

❑Applicants must address comprehensively the criteria and adhere to the proposal guidelines and requirements stated in the Application Manual and in Attachment A.

1. Technical Merits (30 points),
2. Technical Approach (25 points),
3. Technical Qualifications, Management and Project Team (20 points),
4. Market Connectedness (25 points).

# Scoring Criteria

**See Attachment C2. Scoring Criteria for RESCO Collateral Categories**

- Applicants must address comprehensively the criteria and adhere to the proposal guidelines and requirements stated in the Application Manual and in Attachment B.
    1. Technical Merits (30 points),
    2. Technical Approach (25 points),
    3. Technical Qualifications, Management and Project Team (20 points),
    4. Market Connectedness (25 points).
- Applicants must submit a complete proposal for each collateral category that applicants want to address.
- Each collateral category proposal will be scored against other proposals for the same collateral category.







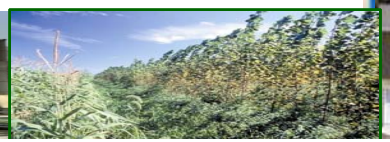
# Proposal Guidelines

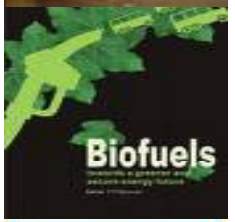








# Proposal Guidelines

**Proposals must adhere to the following proposal guidelines.**
***Failure to adhere to these guidelines MAY result in your proposal being rejected and not eligible for funding.***

1. **Please provide <u>one (1) original, ten (10) copies</u> of the proposal, and a CD containing all the documents.**

   - **The documents do not need to be bound; binder clips are acceptable.**
   - **The original must be signed by an authorized representative of your organization.**

2. **<u>Limit proposals to a maximum of 40 pages total</u>.**
   - **Use appendix for additional information.**

# Proposal Guidelines

3. Use a standard 11-point font and 1-inch or larger page margins. Insert one blank line between paragraphs. Number the pages.

4. Project duration cannot be more than three years.

5. All project expenditures (match share and reimbursable) must be expended within the approved term of the funding agreement.

6. Maximum funding requests per project cannot exceed the amount stated in Section 8 for different levels of funding.

# Proposal Guidelines

**7.** Match funding is required except for Collateral Category 2 and the share of match funding will be considered in scoring the proposal.

8. The budget should allow for the expenses of a Kick-off Meeting, at least two Critical Project Review meetings, and a Final Meeting. It is anticipated that meetings will be conducted at the Energy Commission located in Sacramento, CA.

9. The budgets should allow for the preparation and submission of monthly progress reports (2-4 pages each) during the approved term of the agreement, and a final report that follows Energy Commission guidelines which can be found at http://www.energy.ca.gov/contracts/pier/contractors/index.html.

# Proposal Guidelines

10. Purchase of equipment (items with a unit cost >$5,000 and a useful life > one year) with PIER funds is discouraged.

- ❑ No disposition requirements for equipment purchased with match share funding.

11. Budget must reflect estimates for ***actual*** costs to be incurred during the approved term of the project.

- ❑The Energy Commission can only approve and reimburse expenditures for actual costs that are properly documented in accordance with the PIER Grant Terms and Conditions.

12. Budget must ***NOT*** include any profit from the proposed project, either as a reimbursed item or as match share.

- ❑In accordance with the PIER Grant Terms and Conditions, NO PROFIT IS ALLOWED UNDER GRANT AGREEMENTS.



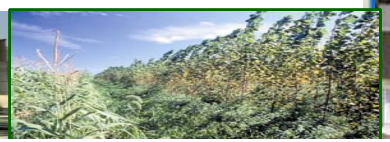


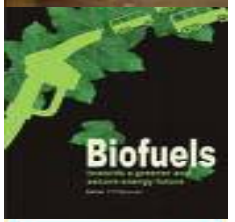








# Confidential Information

# Confidential Information

**No confidential information will be accepted during the proposal and selection phase of this solicitation.**

- **If any confidential information is submitted, your entire proposal will be rejected and will not be eligible for funding.**
- **Proposals containing confidential information will be returned to the applicant.**
- **While discouraged, applicants may *propose* to deliver confidential products during the course of the project if funded.**
- **If necessary, instructions on submitting confidential products will be provided by the Energy Commission prior to executing the Grant Agreement.**









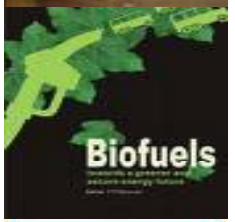















# Submission Requirements

# Submission Requirements

**Proposals must be *received* by the Energy Commission's Grants and Loans Office by 4:00 p.m. (PST) on January 30, 2009.**

✓**Proposals must be mailed or delivered to:**

**California Energy Commission**
**Grants and Loans Office**
**Attn: PIER Renewables Program**
**Renewable-Based Energy Secure Communities**
**1516 Ninth Street, MS-1**
**Sacramento, CA 95814**

- ✓ **Postmark dates of mailing, electronic mail (E-mail), and facsimile (Fax) transmissions are not acceptable in whole or in part under any circumstances.**
- ✓ **The Energy Commission will reject all proposals not received by the Energy Commission's Grants and Loans Office by the stated due date and time.**







# Grounds for Rejection



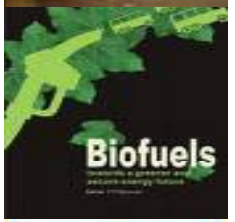












# Grounds for Rejection

**Proposals *WILL* be rejected and not considered for funding if:**

1. The proposal is not received by the Energy Commission's Grants and Loans Office by the stated due date and time.
2. The proposal contains any confidential information.
3. Does not use the mandatory Work Statement and Budget templates.
4. The proposal is not for a separate, distinct project from other proposals submitted by the same Applicant.

# Grounds for Rejection

Proposals ***MAY*** be rejected and not considered for funding if:

- The proposal does not address each element listed under “Proposal Requirements.”
- The proposal does not adhere to the guidelines listed under “Proposal Guidelines.”





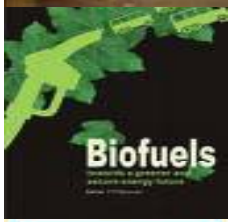






# Payment of Prevailing Wage

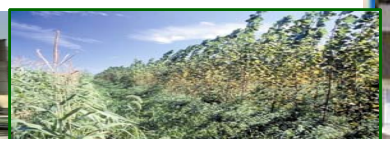











# Payment of Prevailing Wage

Some projects under this solicitation might be considered public works pursuant to the California Labor Code.

- If the project is a public work, prevailing wage is required.

- See pages 13-14 of the Application Package and Exhibits 2, 3 & 4 for prevailing wage requirements.



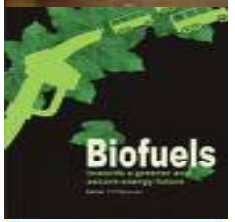








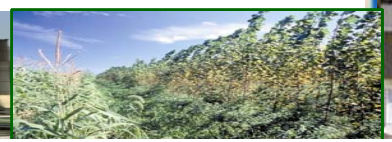











# Amendment or Cancellation of this RESCO Solicitation

# Amendment or Cancellation of this Solicitation

**The Energy Commission reserves the right to do any of the following:**

- ❑ **Cancel this solicitation**
- ❑ **Amend or revise this solicitation as needed or**
- ❑ **Reject any or all proposals received in response to this solicitation.**



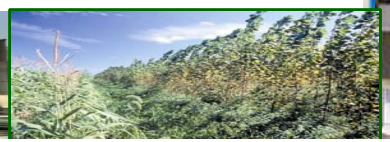


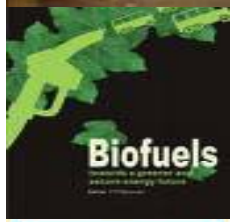








# Additional Questions

# Additional Questions

Additional questions about this solicitation must be submitted by 4:00 p.m. on December 29, 2008, and may be submitted by email or letter.

The questions and answers will be posted on the Energy Commission's website by January 9, 2009. Questions may be directed to:


Valentino Tiangco
Energy Generation Research Office
California Energy Commission
1516 Ninth Street, MS-43
Sacramento, CA 95814
Email: vtiangco@energy.state.ca.us

# Questions

**For those parties without internet access, copies of the PON, Manual and Q's & A's can be obtained by contacting:**


Angela Layton
Administrative Assistant
Energy Generation Research Office
California Energy Commission
1516 Ninth Street, MS-43
Sacramento, CA 95814
Telephone: (916) 651-9312
Email: alayton@energy.state.ca.us

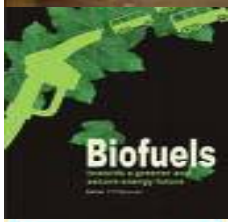






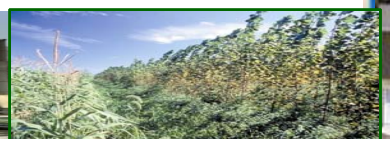








# Thanks for your attention!

# Questions?